



TRI-MAG, Inc.

® *your* POWER Specialists

1601 N. CLANCY CT. • VISALIA, CA 93291
(559) 651-2222 • FAX (559) 651-0188
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972ZX SERIES

15 Watt, Low Profile

DC-DC CONVERTER

4:1 Wide Range Input

FEATURES

- PCB Mountable
- High Stable Regulated Output
- Thermally Conductive Encapsulant
- 100% Burn-In And Triple Tested
- MTBF > 400,000 Hours

APPLICATIONS

- Local Area Network
- Isolation Devices
- Telecommunications
- Industrial And Testing Equipment
- Battery-Powered Equipment
- Medical Equipment
- Distributed Power Equipment



ELECTRICAL SPECIFICATIONS

Input Voltage Range	4:1
Output voltage Accuracy	±2%
Load Regulation	Single ±1%, Dual & Triple ±2.5%
Line Regulation	Single ±0.5%, Dual & Triple ±1%
Ripple & Noise	100mV p-p for 5V, 1% for other voltages
Short Circuit Protection	Fold Back
Over Load Protection	Build-in

GENERAL SPECIFICATIONS

Efficiency (at full load)	Single & Dual 80% typical, Triple 80% typical
Isolation Voltage	500VDC
Operating Frequency	100KHz min.
Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +100°C
Isolation Resistance	10 ⁹ Ohms, min.
Reflected Ripple Current	20mA, typical
Weight	Single & Dual 2.4 Oz. (65 grams), Triple 2.8 Oz. (79 grams)
Case Material	Black coated with non-conductive metal base



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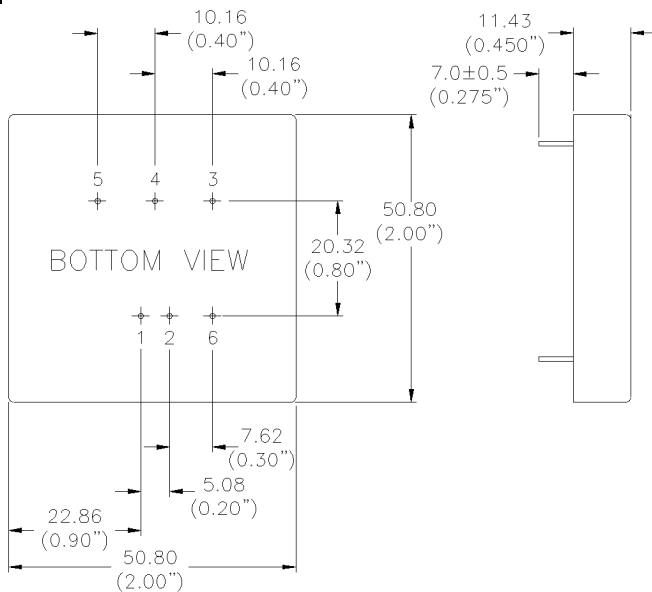
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972ZX SERIES SINGLE AND DUAL OUTPUT SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
972ZX2405S	9-36 (24)	28	1563	5	3000
972ZX2412S		28	1563	12	1250
972ZX2415S		28	1563	15	1000
972ZX2405D		28	1524	±5	±1500
972ZX2412D		28	1563	±12	±625
972ZX2415D		28	1524	±15	±500
972ZX4805S	20-72 (48)	26	781	5	3000
972ZX4812S		26	753	12	1250
972ZX4815S		26	753	15	1000
972ZX4805D		26	781	±5	±1500
972ZX4812D		26	753	±12	±625
972ZX4815D		26	753	±15	±500

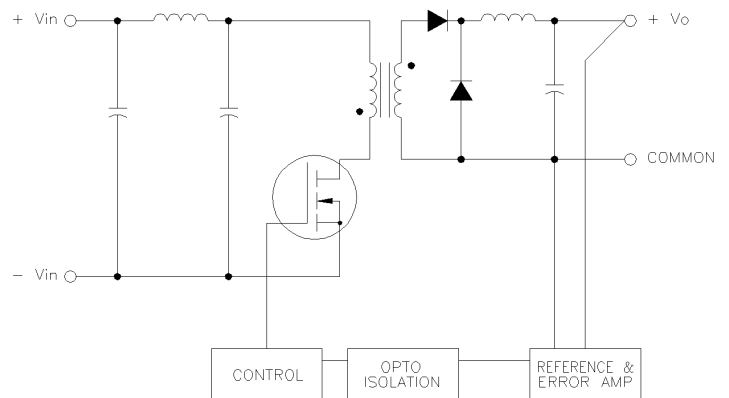
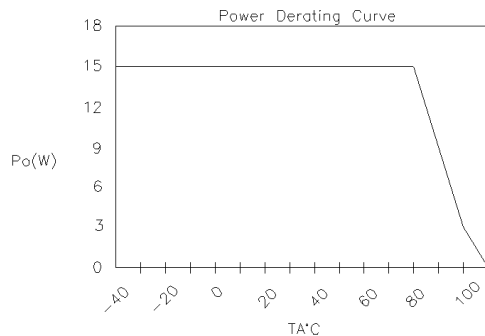
S: Single Output

D: Dual Output



Pin Connections

Pin	Single	Dual
1	+ Input	+ Input
2	- Input	- Input
3	- Output	- Output
4	Trim	Common
5	+ Output	+ Output
6	Remote On/Off	





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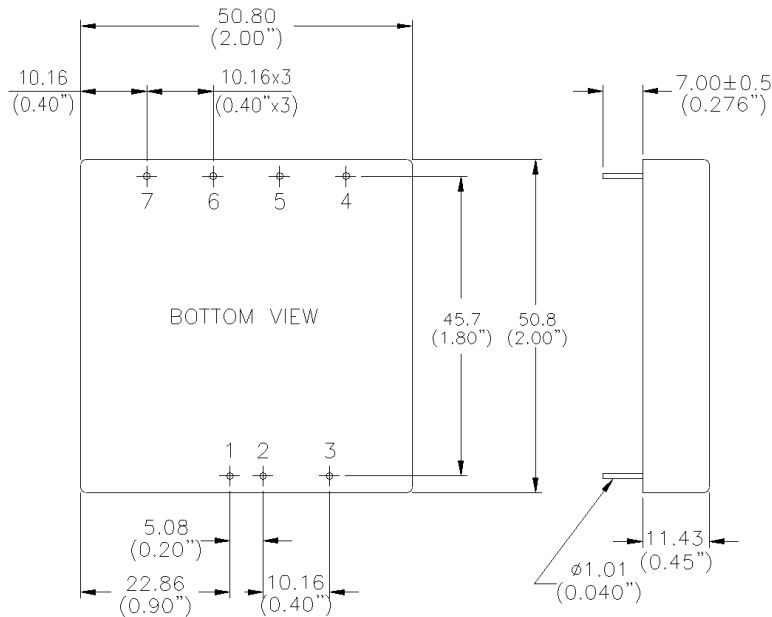
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972ZX SERIES TRIPLE OUTPUT SPECIFICATIONS

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
972ZX24T01	9-36 (24)	60	1376	+5 +12 -12	1500 310 310
972ZX24T02		60	1582	+5 +15 -15	1500 250 250
972ZX24T03		60	1447	+5 +12 -5	1500 310 500
972ZX48T01	20-72 (48)	65	769	+5 +12 -12	1500 310 310
972ZX48T02		65	772	+5 +15 -15	1500 250 250
972ZX48T03		65	706	+5 +12 -5	1500 310 500



Pin Connections

Pin	Fuction
1	+ Input
2	- Input
3	On/Off
4	- Output
5	Common
6	+5V Output
7	+ Output